## Degree

Given an undirected graph of n vertices and m edges. Output the degree of vertices.

## Input

The first line contains two integers n and m (  $1 \le n \le 1000, \, 0 \le m \le min(10^5, \, n^*(n-1)/2)$  )

Each line in the next m lines contains two integers u,  $v(1 \le u, v \le n)$  - representing the connecting edge from u to v.

## Output

A line of n numbers: deg [1], deg [2] ... deg [n], respectively, is the degree of vertices 1,2 ... n.

## Example